

# PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Song S. Xue</td> <td>10/28/2003</td> </tr> <tr> <td>Paul E. Anderson</td> <td>10/27/2003</td> </tr> <tr> <td>Michael C. Kautzky</td> <td>10/27/2003</td> </tr> <tr> <td>Xuefei Tang</td> <td>10/28/2003</td> </tr> <tr> <td>Patrick J. Ryan</td> <td>10/28/2003</td> </tr> </tbody> </table>		Name	Execution Date	Song S. Xue	10/28/2003	Paul E. Anderson	10/27/2003	Michael C. Kautzky	10/27/2003	Xuefei Tang	10/28/2003	Patrick J. Ryan	10/28/2003
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Seagate Technology LLC</td> </tr> <tr> <td>Street Address:</td> <td>920 Disc Drive</td> </tr> <tr> <td>City:</td> <td>Scotts Valley</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95066</td> </tr> </table>		Name:	Seagate Technology LLC	Street Address:	920 Disc Drive	City:	Scotts Valley	State/Country:	CALIFORNIA	Postal Code:	95066		
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<b>PROPERTY NUMBERS Total: 1</b>													
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (612)339-6580  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 612-339-1863        Email: nplongley@kinney.com        Correspondent Name: Nathaniel P. Longley        Address Line 1: 312 South Third Street        Address Line 2: Kinney &amp; Lange, P.A.        Address Line 4: Minneapolis, MINNESOTA 55415-1028</p>													
ATTORNEY DOCKET NUMBER:	169.12-646/11294.10												
NAME OF SUBMITTER:	Nathaniel P. Longley												

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**PATENT**  
 REEL: 025470 FRAME: 0730

**Total Attachments: 3**

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## ASSIGNMENT

Attorney Docket No. : 169.12-0603

Seagate Docket No. : STL 11294.00

WHEREAS, we Song S. Xue of 7320 Gallagher Drive, #204, Edina, Minnesota 55435, USA; Paul E. Anderson of 6850 Kingston Drive, Eden Prairie, Minnesota 55346, USA; Michael C. Kautzky of 4143 Cashell Glen, Eagan, Minnesota 55122, USA; Xuefei Tang of 12648 Stoney Way, Eden Prairie, Minnesota 55347, USA; and Patrick J. Ryan of 1249 Scheffer Avenue, St. Paul, Minnesota 55116, USA are the inventor(s) of an invention entitled MAGNETORESISTIVE SENSOR HAVING SPECULAR SIDEWALL LAYERS that is the subject matter of: (Check all that apply)

- ☐ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. \_ filed on \_;
- ☒ an application for Letters Patent which has been executed on even date herewith and/or is identifiable in the United States Patent and Trademark Office by Application No. filed on ;and
- ☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. ,filed on ; and

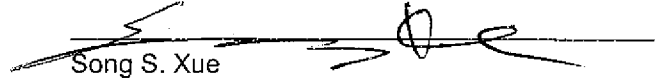
WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

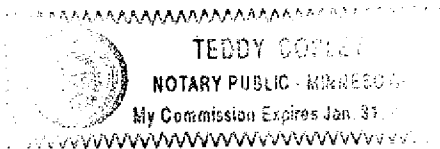
IN TESTIMONY WHEREOF, I have hereunto set my hand this 28th day of October, 2003.

  
Song S. Xue

STATE OF MINNESOTA )  
 )ss.  
COUNTY OF HENNEPIN )

On this 28th day of OCTOBER, 2003, before me personally appeared SONG XUE to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]



  
Notary Public

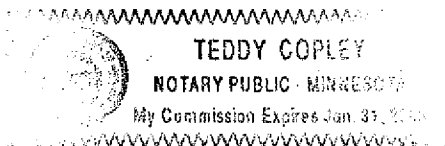
IN TESTIMONY WHEREOF, I have hereunto set my hand this 27th day of OCTOBER, 2003.

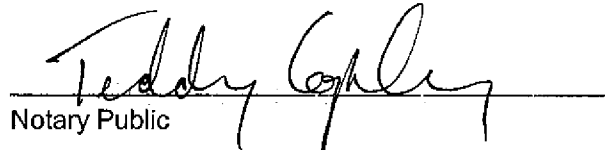
  
Paul E. Anderson

STATE OF MINNESOTA )  
 )ss.  
COUNTY OF HENNEPIN )

On this 27th day of OCTOBER, 2003, before me personally appeared PAUL E. ANDERSON to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

[SEAL]

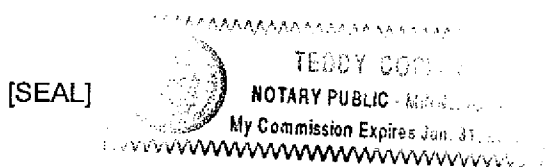


  
Notary Public

Michael C. Kautzky  
Michael C. Kautzky

STATE OF MINNESOTA )  
COUNTY OF HENNEPIN )ss.

On this 27TH day of OCTOBER, 2003, before me personally appeared MICHAEL C. KAUTZKY to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.



Teddy Copley  
Notary Public

Xuefei Tang  
Xuefei Tang

STATE OF MINNESOTA )  
COUNTY OF HENNEPIN )ss.

On this 28TH day of OCTOBER, 2003 before me personally appeared XUEFEI TANG to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.

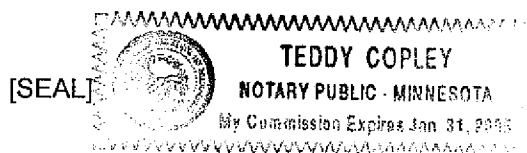


Teddy Copley  
Notary Public

Patrick J. Ryan  
Patrick J. Ryan

STATE OF MINNESOTA )  
COUNTY OF HENNEPIN )ss.

On this 28TH day of OCTOBER, 2003, before me personally appeared PATRICK RYAN to me known to be identified herein, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes herein set forth.



Teddy Copley  
Notary Public